

# Proceedings of the Iowa Academy of Science

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1945

## Reports - Executive Committee; Secretary; Treasurer; Staff Reports; Committee Reports

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# PROCEEDINGS OF THE IOWA ACADEMY OF SCIENCE

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## STANDING COMMITTEES OF THE IOWA ACADEMY OF SCIENCE

BIOLOGICAL SURVEY: Conard, *Chairman*; Jaques, Stephens, R. B. Wylie.

CONSERVATION: Aikman, *Chairman*; Doty, Hayden, Hendrickson, Hershey, Keyes, MacDonald, Mendell, Speaker.

FINANCE: Hauber, *Chairman*; Cornog, J. C. Gilman, Lindstrom.

HIGH SCHOOL RELATIONS: F. E. Brown, *Chairman*; Becker, Rislely, D. C. Stroud.

LEGISLATION: Bodine, *Chairman*; Reed, Spinney, Weld.

MEMBERSHIP: Getchell, *Chairman*; W. A. Anderson, Holl, Liggett, Weld.

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## MEETING OF THE EXECUTIVE COMMITTEE

The Iowa Academy of Science met in executive session at 4:00 P. M. in the Old Capitol at Iowa City on Saturday, April 14, 1945.

The meeting was called to order by the President Ben H. Peterson.

The following members of the Executive Committee were present: Peterson, Gilman, Wilson, Conrad, Aikman, Brown, Getchell, Bodine, Loomis, Cornog, Miller, Nelson, Jahn, Gouwens. Four section chairmen, Berg, Butchart, Dean, and Irwin, were present as well as three or four local members of the Academy so that a quorum was assured.

The President named Aikman, Jahn, and Nelson to a committee to nominate officers for the next year with instructions to report before the close of the meeting.

A committee on Necrology made its report and this was accepted.

The regular reports of the Secretary, the Treasurer, the Auditing Committee, the Finance Committee were made and accepted. The question of the disposition of the Midland Investment Corporation preferred stock and the Midland Theatre Corporation bonds was left to the Finance Committee.

The reports by the Committee on Biological Survey and the Conservation Committee were made and accepted. This acceptance carries the approval of a request for one hundred dollars for expenses by the Conservation Committee. The report by the High School Relations Committee was made and accepted. This included a recommendation that the Academy grant the Junior Academy enough money if necessary to give them at least seventy-five dollars during the year for expenses in conducting the business of the Academy.

The reports by the Membership Committee, the Editor, and the report by L. R. Wilson as Academy Representative at the meeting of the Council of the A. A. A. S. in Cleveland were made and accepted. The Librarian's report was accepted. These reports are all published in the Proceedings. No disposition was made of the A. A. A. S. grant for aid in research, but the committee consisting of Gilman, Wilson, and Lauer was authorized to distribute this grant if requests for aid are made and seem justified.

It was moved, seconded, and passed that the purpose of the endowment fund, its accumulation, its objective, and its use be discussed at the business meeting of the Academy in 1946.

A motion was made and passed that the President name a committee of five, including the President and the Secretary, to choose the time, place, and type of meeting to be held in 1946 and to try to reach a decision before January 1, 1946.

The Nominating Committee made its report and named as officers for the year:

President: J. C. Gilman  
 Vice President: J. H. Bodine  
 Editor: L. R. Wilson  
 Secretary-Treasurer: Cornelius Gouwens

These officers were then declared elected.

A motion was made and passed that the Section Chairman retain their offices for the year and that the Section Representatives to the Executive Committee whose terms expire in 1945 have their term of office extended one year. These minutes were then read and approved.

Dr. J. C. Gilman then took the chair and with a short word of appreciation called for adjournment.

CORNELIUS GOUWENS  
*Secretary-Treasurer*

### REPORT OF THE SECRETARY

Because of requests from the Office of Defense Transportation that no conventions be held as long as the necessity for present restrictions on travel exist, the 1945 annual meeting of the Iowa Academy of Science was cancelled. The business of the Academy will be conducted by the Executive Committee. It will be the responsibility of the entire membership to keep up our support of the Academy and help carry it through this present emergency. The Academy is in a very good financial situation. The assets were increased by \$329.84 during the year and now stand at \$3897.86. The membership keeps up remarkably well. I have on my list as of March 1, a total of 644 names distributed as follows: Honorary Life Fellow 1, Emeritus Fellows 5, Life Fellows 19, Fellows 283, Associates 336. I am carrying 50 names of members delinquent one

year or more. Dues have been collected to the best of the Treasurer's ability.

Some committee changes were made during the year. Paul Kambly resigned as chairman of the membership committee and R. W. Getchell was appointed chairman of that committee to serve until 1949. R. W. Liggett and W. A. Anderson were appointed as new members. Ulrich A. Hauber was named as chairman of the Finance and endowment committee. Jacob Cornog was named as new member.

The Revision of the constitution will be considered at the next regular business meeting of the Academy.

Our Editor, L. R. Wilson, is to be commended for his work in editing the Proceedings of the Iowa Academy and especially this year for his work in publishing the index of the first fifty volumes.

Respectfully submitted,

CORNELIUS GOUWENS  
*Secretary*

### REPORT OF THE TREASURER

March 1, 1945

Cash on hand March 1, 1944 .....	\$ 396.56
Receipts	
Dues* .....	710.55
Redeposits .....	3.07
Interest .....	48.24
Devident on stock .....	6.00
Bond redemption .....	1300.00
AAAS .....	114.00
Sales .....	45.91
	<u>\$2227.77</u>
Total .....	\$2624.33
Disbursements	
Freight on Proceedings .....	\$ 12.56
L. R. Wilson-Editor's stipend .....	50.00
L. R. Laudon-Speaker's honorarium .....	50.00
Epply Hotels-Convention Rooms .....	18.00
Purchase of bonds .....	1300.00
Leland P. Johnson-AAAS grant .....	31.25
L. R. Wilson-AAAS grant .....	40.00
K. A. Stiles-AAAS grant .....	42.75
D. C. Stroud, stipend .....	25.00
Refund on overpayment of dues-Kenneth Kopf .....	3.00
Bank box rent .....	1.80
Klipto Loose Leaf Co.-Proceedings overrun .....	26.14

Set of Proceedings from E. D. Ball library .....	77.13
Charge against returned checks .....	3.07
L. R. Wilson, Convention travel expenses .....	30.00
Editor's office expense .....	63.57
Stationery, printing .....	54.41
Postage .....	34.35
Check Exchange .....	2.18
To Savings account .....	70.00
Secretary's office expense .....	9.36
Charles Brown, Librarian, expense, postage .....	31.76
Cornelius Gouwens, stipend .....	100.00
	\$2076.33

Balance on hand March 1, 1945

On deposit Union Story Trust and Savings Bank .....\$548.00

\*This includes \$159.00 of 1945-46 dues collected in advance in February.

SAVINGS ACCOUNT

March 1, 1945

Receipts

Balance on hand, March 1, 1944 .....	\$451.21
Interest .....	\$ 2.90
Fellows membership transfer fees and life member fee .....	70.00
	\$524.11

Disbursement

Used for purchase of U. S. Treasury bond .....	200.00
Balance on hand March 1, 1945	
On deposit Union Story Trust and Savings Bank, Ames, Iowa .....	\$324.11

HOLDINGS AND SECURITIES

Iowa Academy of Science, March 1, 1945	
United States Treasury bond Series F	
Face value \$1000.000 purchased December 1943	
Due 1955 present value .....	\$ 742.00
United States Treasury bonds Series D	
Face value \$675.00 purchased July 1939	
Due 1949 present value .....	573.75
United States Treasury bonds Series G .....	1500.00
Midland Investment Corporation	
Preferred Stock \$200.00 present value .....	xxxx.xx
Midland Theatre Corporation bonds 3 per cent	
Savings Account March 1, 1945	
Face value \$300.00 present value .....	210.00
Union Story Trust and Savings Bank .....	324.11

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Checking Account March 1, 1945	
Union Story Trust and Savings Bank.....	548.00
	<hr/>
	\$3897.86

Respectfully submitted,

CORNELIUS GOUWENS  
*Secretary-Treasurer*

Audited March 10, 1945  
C. S. Gwynne  
L. T. Earls

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**JUNIOR ACADEMY OF SCIENCE**

March 1, 1945	
Balance on hand March 1, 1944 .....	\$154.25
Receipts .....	\$ 1.00
	<hr/>
	\$155.25
Disbursements .....	26.86
Balance on hand March 1, 1945 .....	\$128.39

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**REPORT OF AUDITING COMMITTEE  
IOWA ACADEMY OF SCIENCE**

March 10, 1945

We have examined the accounts and records of the Academy Secretary-Treasurer, Mr. Cornelius Gouwens, for the period March 1, 1944 to March 1, 1945, and find them to be correct and in good order, and the securities listed to be in his possession. We believe the Academy is to be congratulated upon the very efficient service rendered by Mr. Gouwens.

C. S. GWYNNE  
L. T. EARLS

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**REPORT OF THE FINANCE COMMITTEE FOR FISCAL  
YEAR ENDING MARCH 1, 1945**

The members of the Finance Committee whose names appear below have received copies of the March 1, 1945 report of the treasurer, Cornelius Gouwens, and also the report of the auditors, C. S. Gwynne and L. C. Earles, and approve both of these reports.

MEMBERS OF THE COMMITTEE:

U. A. HAUBER  
JACOB CORNOG  
JOSEPH C. GILMAN

**THE REPORT OF THE IOWA STATE COLLEGE LIBRARY TO THE IOWA ACADEMY OF SCIENCE FOR THE YEAR ENDING FEBRUARY 28, 1945**

As in the past few years, during 1944-45 the distribution of the Proceedings of the Iowa Academy of Science to institutions in foreign countries was greatly curtailed because of the war. Since December 7, 1941, the Library has sent out only the volumes designated for individuals and institutions in this hemisphere and to certain institutions in Great Britain. The volumes not forwarded will be held by the Library for the duration. Similarly, many foreign institutions are now holding publications which are normally sent us on exchange for the Proceedings. The figures which follow, therefore, do not represent the series actually received, but the number of publications due us in exchange.

Number of Institutions on Mailing List:

Domestic .....	127
Foreign .....	66
	<hr/>
	193

Number of Publication normally received from these institutions:

Domestic .....	372
Foreign .....	173
	<hr/>
	545

Number of Publications received on direct exchange:

Domestic .....	60	from 42	institutions
Foreign .....	24	from 23	institutions
	<hr/>		
	84		65

Number of Publications Normally Received in Exchange for Iowa Academy of Science Proceedings Plus Publications of Iowa State College:

Domestic .....	312	from 85	institutions
Foreign .....	149	from 43	institutions
	<hr/>		
	461		128

Note: These publications are normally received for a combination of the Iowa Academy of Science Proceedings with any of the following: Iowa State College Journal of Science, Iowa Agricultural Experiment Station publications, Iowa Engineering Experiment Station Bulletin.

Institutions receiving the proceedings as gifts:

6 U. S. Government Agencies
22 Iowa Libraries
2 Foreign Institutions (For abstracting)
<hr/>
30

REPORT OF IOWA ACADEMY OF SCIENCE SALES FUND:

Balance on hand February 29, 1944 .....	\$196.95	
Sale of Volumes of Proceedings plus postage .....	45.91	
	<hr/>	
Total Receipts		\$242.86
Disbursements for Postage .....	31.76	
Purchase of rare volumes of Proceedings .....	77.13	
	<hr/>	
Total Disbursements		\$108.89
		<hr/>
Balance 3-1-45		\$133.97

CHARLES H. BROWN  
*Librarian.*

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**REPORT OF THE COMMITTEE ON NECROLOGY**

The Committee wishes to report that the following members have died during the past year. The year indicated is the year in which they were elected to membership in the Academy.

W. H. Norton	1892
Charles Carter	1895
William Trelease	1900
Dayton Stoner	1911
James P. Goodrich	1938

Memorials for these members will be prepared and published in this volume of the Proceedings of the Iowa Academy of Science.  
Signed:

FRANK A. STROMSTEN  
JOSEPH C. GILMAN  
ADA HAYDEN  
CHARLES R. KEYES  
NEIL A. MINER  
THEODORE L. JAHN  
T. C. STEPHENS  
CORNELIUS GOUWENS, *Chairman.*

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**REPORT OF THE EDITOR**

The Proceedings of the Iowa Academy of Science for 1944 are being published in Volume 51. The publication consists of addresses and papers of original investigation by members. Also in Volume 51 will appear a departmentalized index of Volumes 1 to 50 inclusive. These sections have been prepared separately by members of the Academy whose interests lie primarily in the respective fields.

Volume 51 is at present partially in galley proof and partially in page proof. War-time printing difficulties have prevented an earlier completion of the publication.

The editor wishes to express his appreciation to those who have helped solve the many difficult editorial and publication problems that have arisen during the present year. He wants to especially thank those who have labored with the half century Academy index. This index has been difficult since many irregularities are present in the earlier volumes.

Respectfully submitted,

L. R. WILSON, *Editor*

April 14, 1945.

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### **REPORT ON THE A.A.A.S. MEETING AT CLEVELAND**

Meetings of secretaries or representatives from affiliated A.A.A.S. Academies were held on September 11, 1944 at the Statler Hotel in Cleveland, Ohio. Since it was impossible for the Iowa Academy secretary or president to attend this meeting, an invitation was extended to the present editor to be the Academy representative. One-half, or \$30.00, of his expenses was paid by the Academy.

The meetings were concerned with the objectives, procedures, and results of Academy functions. The participation of Academies in war-time programs was stressed, and the functions of educational and conservation programs were considered pertinent. The Virginia plan of procedure was described in general terms as well as those of other Academies.

The problems of Academy grants were considered with the conclusion that full realization of their value was not yet attained.

The publications of Academies of Science in the United States and Canada were reviewed. These are 35 in number and are of the following two general types: (1) those which include only the list of officers, constitution, reports of committees and officers, minutes of the last meeting, the program or more properly the transactions or proceedings of that academy and sometimes abstracts of the papers, and (2) those in which the larger part of the space is devoted to the publication of papers in full. The war has adversely affected the Academies and most Academy publications are late in appearing, while some are temporarily suspended.

The program of the Science Clubs of America was described in some length. At present (September, 1944) 4,784 local clubs are affiliated with that organization. In Iowa there are 115. Exhibits of study materials that are sent to individual clubs were at hand.

Respectfully submitted,

L. R. WILSON, *Editor*

April 14, 1945.

## REPORT OF THE COMMITTEE ON BIOLOGICAL SURVEY

The Committee on Biological Survey reports:

1. The collections of mosses of the State have been examined and the results tabulated to show what mosses are known to occur in each county. Many irregularities remain to be smoothed out by more collecting. A record of mosses by counties is in press.

2. The insect survey is progressing in spite of shortage of man power.

3. The snail survey is shaping up, with illustrations of the species.

4. Studies of flowering plants, identity and distribution, are in progress at the State College and State University.

All of these surveys deserve aid and encouragement, and much more survey work should be undertaken.

Attention should be drawn to "A Botanical Survey in the Iowa Lake Region of Caly and Palo Alto Counties" by Dr. Ada Hayden of Iowa State College (I. S.C. Journal of Science 1943). This is a model study for a limited area.

This Committee heartily supports the plan of the Committee on Conservation for the setting aside of Prairie Preserves, for scientific purposes and for the admiration and instruction of the people.

H. E. JAKUES

T. C. STEPHENS

R. B. WYLIE

H. S. CONARD, *Chairman*

## REPORT OF THE MEMBERSHIP COMMITTEE

The membership committee presents the following names with endorsed applications for membership:

	Life Fellow	
Kenneth Kopf.....		Honolulu
	Fellows; 10:	
Paul C. Benedict.....		Iowa City
George M. Browning.....		Ames
Robert S. Casey.....		Fort Madison
N. H. Crowell.....		Cedar Rapids
W. M. Hale.....		Iowa City
James F. Harrington.....		Ames
Marion Jones.....		Iowa City
Albert P. McKee.....		Iowa City
J. R. Porter.....		Iowa City
Nestor L. Stiles.....		Cherokee

For Transfer from Associate to Fellow; 5:

R. V. Drexler.....	Cedar Rapids
A. J. Englehorn.....	Ames
D. L. Holl.....	Ames
Kenneth Kopf.....	Honolulu
Robert M. Kosanke.....	Urbana, Illinois

For Associates; 21:

Theodore A. Bancroft.....	Ames
H. B. Cheney.....	Ames
C. E. Dahler.....	Iowa Falls
Mary Dodds.....	Ames
P. H. Elwood.....	Ames
B. J. Firkins.....	Ames
Lyle R. Fletcher.....	Des Moines
Maye Hagen.....	Dubuque
Robert H. Heidel.....	Ames
Gloria I. Lauer.....	Ames
Mrs. Addison Parker.....	Des Moines
C. E. Parsons.....	Ames
W. H. Pierre.....	Ames
Frank Riecken.....	Ames
Ethel Shannon.....	Fort Dodge
Edwin H. Silver.....	Washington, D. C.
J. Harvey Smyth.....	Mechanicsville
Mrs. Lillian C. Stoner.....	Albany, New York
Miss Margherita Tarr.....	Ames
H. C. S. Thom.....	Ames
John W. Warner.....	Dubuque

- W. A. ANDERSON
- D. L. HOLL
- T. H. LIGGETT
- L. D. WEID
- R. W. GETCHELL, *Chairman*

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**COMMITTEE ON HIGH SCHOOL  
RELATIONS, OF THE IOWA ACADEMY OF SCIENCE  
AMES, IOWA, APRIL 13, 1945**

No formal meeting of the Committee on High School Relations of the Iowa Academy of Science has been held during the past year. Work has gone forward by common consent of the members of the committee. The permanent secretary D. C. Stroud had done whatever was possible to keep an organization functioning and the Junior Councilor Alvin E. Walz has been in active communication with the science clubs in the state.

The cooperation between the Junior Academy and Science Clubs of America has continued. With their large funds and extensive publication program Science Clubs of America have done far more

than the High School Relations Committee has been able to do.

Science Clubs of America list as one of their member clubs any club whose sponsor writes to them for aids in conducting Science Club work. On that basis they claim one hundred seventy three clubs in the state of Iowa this year. Addresses of these clubs and the names of their sponsors have been sent to me.

About one hundred pieces of printed matter have been sent out. some of these are single sheets but others contain as much as one hundred thirty pages.

In accordance with our agreement with Science Service all of the members of these clubs are also members of the Junior Academy of Iowa. Neither the Junior Academy nor Science Clubs of America knows the names nor even the numbers of members in these clubs. But Science Clubs of America issues a charter and furnishes insignia for contributing clubs only, and it will be possible for the Junior Academy to furnish special service, such as programs at a state meeting, to special clubs in return for contributions.

The activities this year have been limited to communication by mail and no fees have been collected by the Junior Academy.

The permanent secretary, D. C. Stroud, has written to each club whose address has been furnished to us urging them to carry on local activities during this period when statewide activities are not practical. He wishes to have a certificate awarded, to each club which takes part in creditable activities. The only obstacle to such an award this year is a design for the certificate.

The Junior Councilor, Alvin E. Walz, has published the News Letter at irregular intervals and circulated copies to the clubs. The first issue was sent to all clubs. It contained a mailing card by which subsequent copies could be requested. Later issues were furnished to all clubs from which requests were received. The first issue was so attractive that Science Service requested copies in a number sufficiently large to send one copy into each state or district with which they cooperate.

The members of the High School Relations Committee have taken part in three projects.

The chairman of the committee addressed the reorganized Science Section of the State Teacher's Association of Iowa on the subject, Science Clubs in Postwar Education.

The Science Talent Search awarded honorable mention to two students graduating from high school this spring. The committee is working, with high hopes of success, to secure for each of these two promising young scientists tuition for the first term in the college or university of his choice. After the first term they are likely to have records which will secure remission of tuition for subsequent terms.

The High School Relations Committee will bear the expense of

making a plate for the certificate of award for club activities whenever a design is secured.

The Committee on High Schol Relations recommends that a grant be made to the Junior Academy if it is necessary to provide not to exceed \$75.00 for their expenses.

F. E. BROWN  
*Chairman of High School  
Relations Committee*

April 2, 1945

MR. F. E. BROWN  
IOWA STATE COLLEGE  
AMES, IOWA

DEAR MR. BROWN:

I suppose the Junior Academy of Science meeting at Cedar Rapids will be reported in the proceedings of 1944. If not, then I suppose the report would begin with that meeting and the election of officers.

During the year I believe the revival of News Letter has been helpful in carrying Junior Academy news to the Iowa Clubs.

An election is now in the process of being held for officers for 1945-46. We have contacted those clubs that responded to an article in the first issue of News Letter.

I suppose Miss Willis of Cedar Rapids as Senior Councillor and Mr. Walz of Iowa City as Junior Councillor will need to be affirmed at the executive committee meeting of the Iowa Academy.

Looking toward a meeting in 1946 I believe a grant of \$100.00 should be asked of the senior Academy. We should revise our Hand Book and be ready to enlist a bigger membership next year. Our movies should be edited and titled, making them tell our story better.

The possible development of an "award certificate" will be an important part of our program this year. Do you know the type of certificate issued to clubs for exhibits at the annual meetings of the Junior Academy? I believe it can be adapted for use in recognition of clubs of '44 and '45 in their activities, unless something more original is produced. Dr. Lantz is sending me the plates used for printing those certificates. We already have a supply of club charters printed. If extra copies of the certificate are sent, I will send you one.

This is rather rambling but it may give you some ideas to be incorporated in your report.

Sincerely yours,  
D. C. STROUD.

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### **REPORT OF THE COMMITTEE ON CONSERVATION**

The first obligation of the committee, assumed following reor-

ganization in 1942, has been met: the organization and presentation of information on past and present activities in each of seven fields of conservation represented in the state. This material has been prepared and was presented to the Academy last year as a part of the report of the committee under the general title of Present Status and Outlook of Conservation in Iowa. It was published with the report in volume 51 of the Proceedings of the Academy.

The 60-page report of the committee on present status and outlook of conservation is being reprinted by the Iowa Conservation Commission for limited distribution to conservationists in the state and in other states. It is the hope of the committee that members of the academy will make their Proceedings available to conservation-minded individuals who may want to learn more of the general conservation program in the state.

The purpose of this report is to fulfill the second obligation of the committee in the presentation of recommendations relative to contributions which the Academy can make to conservation in Iowa. These recommended actions may be separated into those which the Academy should take as a state-wide scientific organization and those which members should take as individuals in their fields of special interest. It was the plan of the committee to present certain specific recommendations before the general meeting of the Academy.

The committee has decided that its most urgent conservation problem at present, as it was last year, is the conservation of Iowa prairie. Much progress has been made, under the leadership of Dr. Ada Hayden, in studying the nature of the problem, promoting more general interest and cooperating with the Iowa Conservation Commission in determining the character of the prairie areas to be preserved. The committee presents, as a part of this report, A Project on the Conservation of Iowa Prairie, which it has designated as its chief activity in 1945.

The presentation of recommendations to the Academy in the seven fields of conservation is made by the committee.

Respectfully submitted,

ADA HAYDEN

H. S. DOTY

G. O. HENDRICKSON

EVERETT B. SPEAKER

CHARLES R. KEYES

H. G. HERSHEY

G. B. MACDONALD

F. H. MENDELL

J. M. AIKMAN, *Chairman*

April 14, 1945